Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

25X1A9a

TO : [redacted]

ATTN : [redacted]

SUBJECT : Proposed External Research Project

25X1A5a1 25X1A5a1

1. As you may recall we had been hopeful last fall that an external research project on satellite agriculture could be arranged with [redacted]

25X1A5a1 [redacted]

2. In the proposed study under FAS monitoring R/Ag had hoped to get, among other things, some research and analysis done on the use and response of crops to chemical fertilizers in possibly East Germany, Poland and Czechoslovakia.

25X1A1d Since we can not depend upon [redacted] to get the job done it has been tentatively approved as an OER external research project for FY59. However, we need to locate an institution capable and available to perform this research before final approval can be given.

25X1A6a

25X1A5a1 3. Therefore, I would like in connection with my trip [redacted] in October to talk with representatives of one or two [redacted] 25X1A5a1 to determine: (1) their willingness to undertake such a project; (2) qualification of personnel; (3) sources and quality of available data; (4) when they could start the project; and (5) the estimated cost. You could determine, previous to my arrival, which institutions possess the greatest capabilities for doing the best job. It would probably be desirable

25X1A5a1 to obtain suggestions from [redacted] Then, upon receipt of my final itinerary you could make the necessary arrangements for us to talk with representatives of the research institutions.

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

4. Attached is a tentative outline for the project. The countries to be considered are East Germany, Poland and Czechoslovakia. Personnel and information available to the contracting institution will largely determine whether the three countries will be done or only selected ones. It is also possible that we might consider splitting the contract between two institutions so as to obtain the best area and technically competent personnel to conduct the research.

25X1A9a
[redacted]

Attachment: Effects of Fertilizers on Crop Production in Selected Europe.

25X1A9a
ORR/M/AG [redacted]:pam/4806

Distribution:
Orig. & 2 - SA/RR
1 - Ch/E
1 - D/M
2 - M/AG
1 - 25X1A9a [redacted]

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

Title: Effects of Fertilizers on Crop Production in Selected EuSats.

Problem: To estimate the response of crops to applications of chemical fertilizers in selected European Satellite countries and to determine the feasibility of long-run plans for crop yields based on planned inputs of fertilizer.

Scope: The satellites to be covered are East Germany, Poland, Czechoslovakia and possibly one Balkan country, e.g., Rumania. The major emphasis will be on the response of individual crops to the application of chemical fertilizers -- nitrogen, phosphorous and potassium -- since World War II as compared to pre-World War II. A survey of experimental station yield data on crop response to fertilizer should be made and compared with yields of private and collective farms in the same locality using similar fertilization practices. An analysis will be made of the 1965 and, if available, 1975 plans to determine the potential gain that can be achieved in individual crop yields with the planned amounts of fertilizer to be supplied agriculture.

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

[redacted]

Tentative Outline

I. Prewar Use of Mineral Fertilizers, 1933-38

A. Total Consumption

B. Consumption by types of crops

C. Contribution of fertilizer to crop yields per hectare

II. Use of Fertilizers, 1948-1958

A. Total Consumption

B. Consumption by types of crops

C. Consumption by type of farm

1. Private

2. Collective

3. State

D. Contribution fertilizer represents of actual yield

1. Grains

2. Potatoes

3. Sugar beets

4. Oilseeds

5. Fibers

III. Crop yields on experimental plots

A. Using various quantities per hectare of N, P_2O_5 and K_2O on specified crops

B. Yields on plots using no fertilizer

C. Relationship of experimental farm crop yields to private farm yields under similar fertilization practices in same locality.

[redacted]

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5

SECRET

IV. Development of a standard response curve similar to that developed by Crowther and Yates.*

V. Planned Use of Fertilizer, 1960-75

A. Total Consumption

1. 1965

2. 1975

B. Availability per hectare

C. Planned yield per hectare

D. Estimated versus planned yield per hectare for major crops using different fertilizer distribution patterns.

* Fertilizer policy in war-time. The fertilizer requirements of arable crops. The Empire Journal of Experimental Agriculture, Vol. IX, No. 32, April 1941.

NOTE: Should the information needed to satisfy Subsections II D and III C not be available then information on analogous areas in Western Europe should be substituted.

SECRET

Approved For Release 2000/08/03 : CIA-RDP62S00346A000100130035-5